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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/454,755	12/06/1999	SACHIKO NISHIURA	4432-19	4202	
7	7590 06/17/2002				
LAFF WHITESEL CONTE & SARET			EXAMINER		
401 NORTH MICHIGAN AVENUE CHICAGO, IL 60611		YANG, RYAN R			
			ART UNIT	PAPER NUMBER	
		2672			
				DATE MAILED: 06/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

<del> </del>		Application No.	Applicant(a)		
,		Application No.	Applicant(s)		
		09/454,755	NISHIURA, SACHIKO		
	Office Action Summary	Examiner	Art Unit		
		Ryan R Yang	2672		
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover shee	t with the correspondence address		
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state ply received by the Office later than three months after the main displacement. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, ma eply within the statutory minimum of od will apply and will expire SIX (6) I tute, cause the application to becom	y a reply be timely filed  thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on 2	8 May 2002 .			
2a)⊠	This action is <b>FINAL</b> . 2b)	This action is non-final.			
3)□ Dispositi	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims				
4)⊠	Claim(s) 1,2,4-11,13-20 and 22-27 is/are pe	ending in the application.			
	4a) Of the above claim(s) is/are withd	rawn from consideration.			
5) 🗌	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1,2,4-11,13-20 and 22-27 is/are rej	ected.	,		
7) 🗌	Claim(s) is/are objected to.				
8)[	Claim(s) are subject to restriction and	I/or election requirement.	·		
Applicati	on Papers				
9) 🗌 -	The specification is objected to by the Exami	ner.			
10) 🔲 🗆	Γhe drawing(s) filed on <u>06 December 1999</u> is	:/are: a)⊠ accepted or b)□	objected to by the Examiner.		
	Applicant may not request that any objection to	the drawing(s) be held in at	eyance. See 37 CFR 1.85(a).		
11) 🔲 🗆	The proposed drawing correction filed on	is: a)  approved b) [	disapproved by the Examiner.		
	If approved, corrected drawings are required in	, •			
12) 🗌 -	Γhe oath or declaration is objected to by the	Examiner.			
Priority u	nder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).		
a)[	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority docume	ents have been received.			
	2. Certified copies of the priority docume	ents have been received in	n Application No		
* S	3. Copies of the certified copies of the praper application from the International lee the attached detailed Office action for a li	Bureau (PCT Rule 17.2(a	)).		
14)[ A	cknowledgment is made of a claim for dome	stic priority under 35 U.S.	C. § 119(e) (to a provisional application).		
a)	The translation of the foreign language packnowledgment is made of a claim for dome	provisional application has	s been received.		
Attachment	(s)				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) 🔲 Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152) .		
.S. Patent and Tr PTO-326 (Re		Action Summary	Part of Paper No. 6		

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### **DETAILED ACTION**

1. This action is responsive to communications: Amendment, filed on 5/28/02. This action is final.

2. Claims 1-2, 4-11, 13-20 and 22-27 are pending in this application. Claims 1, 10 and 19 are independent claims. In the Amendment, filed on 5/28/02, claims 1, 4, 10, 13, 19 and 22 were amended, claims 3, 12 and 21 were canceled.

This application claims foreign priority dated 12/9/98.

3. The present title of the invention is "Apparatus and Method for Converting an Object Display Description Document" as filed originally.

# Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-2, 6-11, 15-20 and 24-27 are rejected under 35 U.S.C. 103(a) as unpatentable over Politis (6,191,797) in view of Apparao et al. (6,069,633).
- 6. As per claim 1, Politis discloses an apparatus for converting an object display description document, comprising a generating means for generating, from a set of source objects in the document, a set of new objects fewer than said set of source objects, to obtain a display image equivalent to the display image obtained from said set of source objects (Figure 1, where image A and B are combined in various way into a single image).

It is noted that Politis does not explicitly disclose "generating means generates a new object from a transparent or translucent source object and other source objects located at a layer lower than a layer including said transparent or translucent source object and spatially overlapping said transparent or translucent source object", however, this is known in the art as taught by Apparao et al., hereinafter Apparao. Apparao discloses a method of minimize drawing of a display area by using a compositor in which "When a transparent sprite is found, the sprite engine searches the remaining

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sprites in a bottom-up manner and draws the sprites with a Z position below the transparent sprite".

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Apparao into Politis in order to "minimizing the redrawing of unnecessary portions of underlying ...", column 4, line 11-12.

- 7. As per claim 2, Politis and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Politis further discloses said generating means deletes source objects hidden spatially behind another source object which is not transparent nor translucent (Figure 1, where portion of B is deleted by overlapped part of A in A OVER B).
- 8. As per claim 6, Politis and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Politis further discloses a means for storing said set of new objects to a storage medium (Figure 12 1206).
- 9. As per claim 7, Politis and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Politis further discloses a means for selectively storing said set of source objects or said set of new objects to a storage medium (Figure 12 1206).
- 10. As per claim 8, Politis and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Politis further discloses a means for displaying said set of new objects, wherein said apparatus is used as a browser (Figure 12 1216 where the quadtree (a region or a portion of an image) is stored).
- 11. As per claim 9, Politis and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Politis further discloses a means for

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selectively displaying said set of source objects or said set of new objects, wherein said apparatus is used as a browser (Figure 12 1216 where the quadtree is stored).

- 12. As per claims 10-11 and 15-18, since Politis' and Apparao's disclosure are for a method, apparatus and system (see Abstract of Politis) for optimizing an expressing tree, the claims are similarly rejected as claims 1-3 and 6-9, respectively, by Politis and Apparao.
- 13. As per claims 19-20 and 24-27, since Politis' and Apparao's disclosure are used in computer graphics, it is obvious the method can be in the form of computer program, therefore is similarly rejected as claims 1-3 and 6-9, respectively, by Politis and Apparao.
- 14. Claims 1-2, 4-11, 13-20 and 22-27 are rejected under 35 U.S.C. 103(a) as unpatentable over Berend et al. (5,692,117) in view of Apparao et al. (6,069,633).

As per claim 1, Berend et al., hereinafter Berend, discloses an apparatus for converting an object display description document, comprising a generating means for generating, from a set of source objects in the document, a set of new objects fewer than said set of source objects, to obtain a display image equivalent to the display image obtained from said set of source objects (Figure 62a and 62b where 62a shows two overlapping objects and 62b shows combined object has fewer source objects than 62a).

It is noted that Berend does not explicitly disclose "generating means generates a new object from a transparent or translucent source object and other source objects located at a layer lower than a layer including said transparent or translucent source object and spatially overlapping said transparent or translucent source object", however, this is known in the art as taught by Apparao et al., hereinafter Apparao. Apparao

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discloses a method of minimize drawing of a display area by using a compositor in which "When a transparent sprite is found, the sprite engine searches the remaining sprites in a bottom-up manner and draws the sprites with a Z position below the transparent sprite".

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Apparao into Berend in order to "minimizing the redrawing of unnecessary portions of underlying ...", column 4, line 11-12.

- 15. As per claim 2, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses said generating means deletes source objects hidden spatially behind another source object which is not transparent nor translucent (Figure 62a and 62b, "to cause the overlapping portions of the outline curves not to be displayed ... so that the overlapping sections of each boundary curve are rendered invisible when displayed", column 51, line 21-30).
- 16. As per claim 4, Berend and Apparao demonstrated all the elements as applied in the rejection of dependent claim 1, supra, and Berend further discloses generation of said new object from said transparent or translucent source object and said other source objects is performed for a time range in which said transparent or translucent source object spatially overlaps said other source objects ("Another type of amendment involves moving a frame or a series of frames in time ... and to generate new intervening frames (or delete old frames) as required", column 20, line 39-47).
- 17. As per claim 5, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses said generating means deletes a source object when a display time for said source object is out of a display time range for said set of source objects ("Another type of amendment involves moving a frame or a series of frames in time ... and to generate new intervening frames (or delete old frames) as required", column 20, line 39-47).
- 18. As per claim 6, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses a means for storing said set of new objects to a storage medium (Figure 3 120).

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19. As per claim 7, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses a means for selectively storing said set of source objects or said set of new objects to a storage medium (Figure 3 120).

- 20. As per claim 8, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses a means for displaying said set of new objects, wherein said apparatus is used as a browser (Figure 5, where the animator workstations 110a ... 110c can retrieve data from file server 180).
- 21. As per claim 9, Berend and Apparao demonstrated all the elements as applied in the rejection of independent claim 1, supra, and Berend further discloses a means for selectively displaying said set of source objects or said set of new objects, wherein said apparatus is used as a browser (Figure 5, where the animator workstations 110a ... 110c can selectively retrieve data from file server 180).
- 22. As per claims 10-11 and 13-18, since Berend's and Apparao's disclosure are for a method and apparatus for producing animated drawing, the claims are similarly rejected as claims 1-2 and 4-9, respectively, by Berend and Apparao.
- 23. As per claims 19-20 and 22-27, since Berend's and Apparao's disclosure are used in computer animation, it is obvious the method can be in the form of computer program, therefore is similarly rejected as claims 1-2 and 4-9, respectively, by Berend and Apparao.

### Response to Arguments

24. Applicant's arguments with respect to claims 1, 10 and 19 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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## Inquiries

26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ryan Yang** whose telephone number is **(703) 308-6133**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi**, can be reached at **(703) 305-4713**.

# Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ryan Yang

June 7, 2002

MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600